Available online at www.sciencedirect.com

ScienceDirect

Electronic Notes in Theoretical Computer Science 221 (2008) 1

Electronic Notes in Theoretical Computer Science

www.elsevier.com/locate/entcs

Preface

The Fifth International Conference on Computability and Complexity in Analysis, CCA 2008, took place on August 21-24, 2008 in Hagen, Germany. It was the 14th event in a series of workshops, seminars and conferences. For more information about CCA see http://cca-net.de.

This time the conference was held in honor of Klaus Weihrauch's 65th birthday and it included a faculty colloquium to celebrate his retirement. As expressed by a conference participant in 2003, Klaus Weihrauch is the lynchpin of the CCA group and thus it was appropriate that in this year the conference series returned to Hagen where it once started in 1995.

The conference is concerned with Computable Analysis, the theory of computability and complexity over real-valued data. Computability theory studies the limitations and abilities of computers in principle. Computational complexity theory provides a framework for understanding the cost of solving computational problems, as measured by the requirement for resources such as time and space. In particular, computable analysis supplies an algorithmic foundation of numerical computation.

Scientists working in the area of computability and complexity over the real numbers and over more general continuous data structures come from different fields, such as theoretical computer science, domain theory, logic, constructive mathematics, computer arithmetic, numerical mathematics and all branches of analysis.

The conference programme consisted of 27 contributed lectures and eight invited talks. These proceedings contain a selection of 24 contributed articles. We would like to thank all authors for their contributions and the programme committee members and the additional referees for their careful refereeing work.

Vasco Brattka
Ruth Dillhage
Tanja Grubba
Angela Klutsch

doi:10.1016/j.entcs.2008.12.001